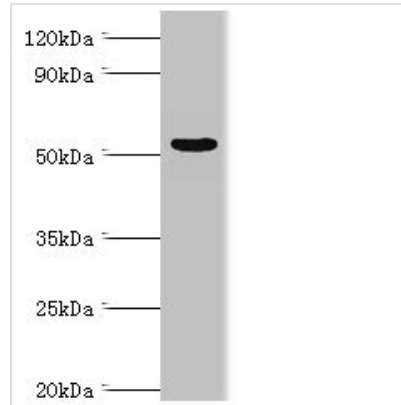




PRKAG3 Antibody

Product Code	CSB-PA883379ESR2HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9UGI9
Immunogen	Recombinant Human 5'''-AMP-activated protein kinase subunit gamma-3 protein (1-210AA)
Raised In	Rabbit
Species Reactivity	Human, Rat
Tested Applications	ELISA, WB; Recommended dilution: WB:1:500-1:2000
Relevance	<p>AMP/ATP-binding subunit of AMP-activated protein kinase (AMPK), an energy sensor protein kinase that plays a key role in regulating cellular energy metabolism. In response to reduction of intracellular ATP levels, AMPK activates energy-producing pathways and inhibits energy-consuming processes: inhibits protein, carbohydrate and lipid biosynthesis, as well as cell growth and proliferation. AMPK acts via direct phosphorylation of metabolic enzymes, and by longer-term effects via phosphorylation of transcription regulators. Also acts as a regulator of cellular polarity by remodeling the actin cytoskeleton; probably by indirectly activating myosin. Gamma non-catalytic subunit mediates binding to AMP, ADP and ATP, leading to activate or inhibit AMPK: AMP-binding results in allosteric activation of alpha catalytic subunit (PRKAA1 or PRKAA2) both by inducing phosphorylation and preventing dephosphorylation of catalytic subunits. ADP also stimulates phosphorylation, without stimulating already phosphorylated catalytic subunit. ATP promotes dephosphorylation of catalytic subunit, rendering the AMPK enzyme inactive.</p>
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Purification Method	Antigen Affinity Purified
Isotype	IgG
Clonality	Polyclonal
Alias	5'''-AMP-activated protein kinase subunit gamma-3 (AMPK gamma3) (AMPK subunit gamma-3), PRKAG3, AMPKG3
Species	Human
Research Area	Signal Transduction
Target Names	PRKAG3
Image	



Western blot

All lanes: Carbonic anhydrase 1 antibody at
6 μ g/ml + Rat brain tissue

Secondary

Goat polyclonal to rabbit IgG at 1/10000 dilution

Predicted band size: 55, 52 kDa

Observed band size: 55 kDa